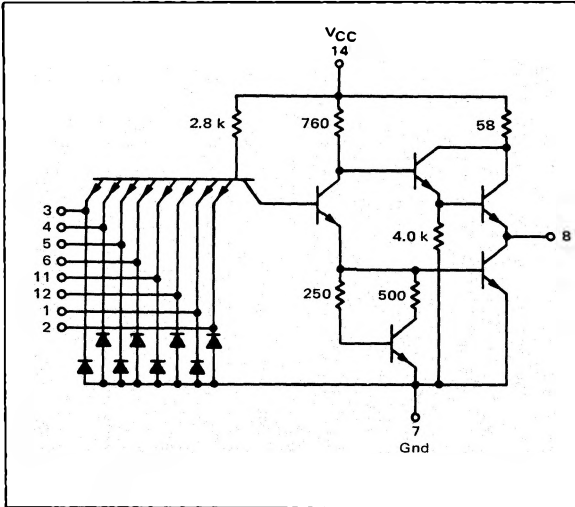


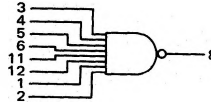
# 8-INPUT "NAND" GATE

MC3100/MC3000 series

**MC3116F • MC3016F**  
**MC3116L • MC3016L,P**  
 (54H30J) (74H30J, N)



This device is an 8-input NAND gate. It is useful when processing a large number of variables, such as in encoders and decoders.



Positive Logic:

8 = 3 • 4 • 5 • 6 • 11 • 12 • 1 • 2

Negative Logic:

8 = 3 + 4 + 5 + 6 + 11 + 12 + 1 + 2

Input Loading Factor = 1

Output Loading Factor = 10

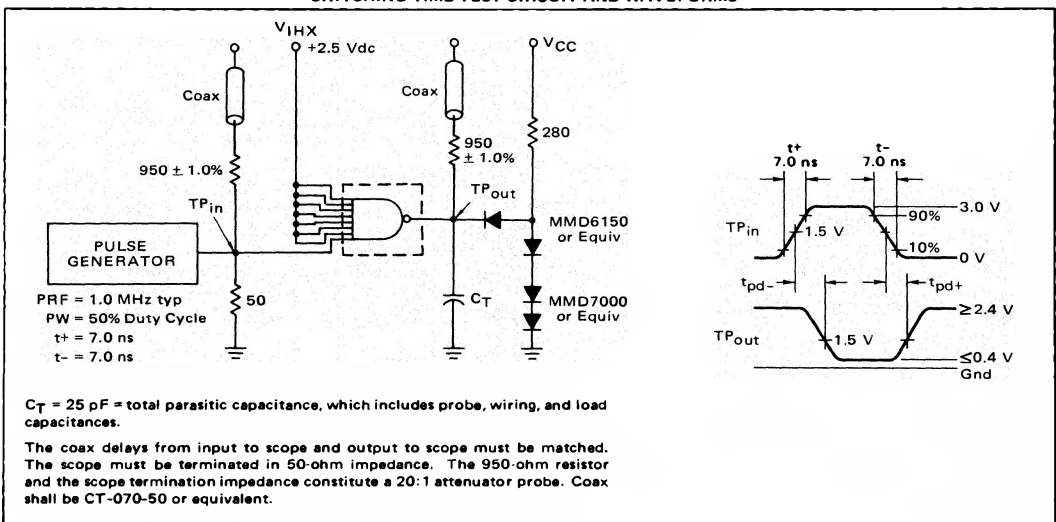
Total Power Dissipation = 22 mW typ/pkg

Propagation Delay Time = 8.0 ns typ

Pin numbers for the 54H30F/74H30F device are shown in the chart. These devices are available on special request.

DEVICE	PIN NUMBERS													
MC3116F,L/3016F,L,P	1	2	3	4	5	6	7	8	9	10	11	12	13	14
54H30F/74H30F	9	10	2	3	5	6	11	12	1	14	7	8	13	4

## SWITCHING TIME TEST CIRCUIT AND WAVEFORMS



General Information section for packaging.

